

# AKÖMA™

## FROM THE HEART

### MATERIAL SAFETY DATA SHEET

#### 1 - Identification of Product and Supplier

<b>Product Name:</b>	<b>Lemongrass Essential Oil Organic</b>				
<b>Biological Definition:</b>	Is the volatile oil obtained by steam distillation of the cut & slightly dried grass <i>Cymbopogon flexuosus</i> (Nees ex Seud) W. Wats Staph.				
<b>INCI Name:</b>	Cymbopogon Citratus Leaf Oil				
<b>Synonyms &amp; Trade Names:</b>	Cochin Grass Oil, Malabar Grass oil.				
<b>Internal Product Code:</b>	R00233				
<b>FEMA No.:</b>	2624	<b>FDA No.</b>	§182.20	<b>CoE No.</b>	2045/38
<b>CAS-No:</b>	89998-14-1	<b>EC No.</b>	295-161-9	<b>EINECS No.</b>	289-752-0
<b>Supplier:</b>	<b>Akoma International (UK) LTD</b> Unit 9A Sawley Park Nottingham Road Derby DE21 6AS Tel: +44 (0) 1332 613 967				
<b>Emergency Contact:</b>	Mr. Wynn Mensah – Tel: 01332 613 967				

#### 2 - Hazards identification:

##### 2.1 Classification of the substance or mixture

Classification (67/548/EEC)	Xi+N; R36/38-43-51/53, S24-26-37-61
Classification (EU 1272/2008)	UN-GHS: FL 4, ATD 5(2800), SCI 2, SS 1, EDI 1, EH A2,C2 EU-CLP: SCI 2, SS 1, EDI 1, EH A2,C2

##### 2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008	
<b>GHS Label:</b>	GHS07 GHS09
<b>Signal word:</b>	Warning
<b>Contains</b>	Citral, geraniol, limonene
<b>Hazard Statements:</b>	H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage

**Precautionary Statements:**

H411 Toxic to aquatic life with long-lasting effects  
 P262 Do not get on skin, in eyes or on clothing  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305/351/338 If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 P273 Avoid release to the environment

**Supplementary**

P391 Collect spillage

**Precautionary Statements:**

Risk phrases and Safety phrases in full refer to *Section 16 – Other Information*

**2.3 Other hazards****Adverse physio-chemical properties**

Combustible but will not self-ignite

**Adverse effects on human health**

May cause sensitisation or damage to skin and eyes.

**3 - Composition and information on ingredients:****3.1 Substances**

75-80% Citral UN-GHS: ATO 5(4950), ATD 5(2250), SCI 2, SS 1, EH A2  
 4% Geraniol UN-GHS: ATO 5(4200), SCI 2, EDI 1, SS 1, EH A2  
 3% Geranyl acetate UN-GHS: SCI 3, EH A2,C2  
 2% Limonene UN-GHS: SCI 2, SS 1, EH A1,C1  
 2% Methyl heptenone UN-GHS: ATO 5(4100), EH A3,SCI 3  
 1.4% beta-Caryophyllene UN-GHS: SCI 3  
 1% Linalool UN-GHS: ATO 5(3000), EDI 2A, EH A3, SCI 2

**3.2 Mixtures****EU INCI**

N/A

**US INCI**

N/A

**4 - First aid measures:****4.1 Description of first aid measures**

General Information	See categories below
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

**4.2 Most important symptoms and effects, both acute and delayed**

N/A

**4.3 Indication of any immediate medical attention and special treatment needed**

N/A

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## 5 - Fire - Fighting measures:

### 5.1 Extinguishing Media

Use CO<sub>2</sub>, Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

### 5.2 Special hazards arising from the substance or mixture.

None.

### 5.3 Advice for fire-fighters

Wear protective clothing. Avoid inhalation of vapours. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

## 6 - Accidental release measures:

### 6.1 Personal precautions

Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.

### 6.2 Environmental precautions

Do not discharge directly into drains or soil. Keep away from surface and ground water.

### 6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.

### 6.4 References to other sections.

Please refer to *Section 8 - Exposure controls/personal protection* for further information on personal precautions

Please refer to *Section 13 - Disposal Considerations* for further information on waste treatment.

## 7 - Handling and storage:

### 7.1 Precautions for safe handling

Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

### 7.3 Specific end use(s)

N/A

## 8 - Exposure controls and personal protection:

### 8.1 Control Parameters

None

### 8.2 Exposure Controls

Eye protection



Use safety glasses.

Hand protection



Avoid all skin contact. Use chemically resistant gloves if required.

Respiratory Equipment

As required. Avoid breathing product vapour.

Hygiene Measures

Wash hands with soap & water after handling

Engineering Measures

Ensure good ventilation of working area.

## 9 - Physical data and chemical properties:

### 9.1 Information on basic physical and chemical properties

Appearance

Bright yellow mobile liquid.

Odour

characteristic Citral, Fresh and intense

Specific Gravity @ 20°C

0.869 – 0.910

Refractive Index @ 20°C

1.460 – 1.490

Optical Rotation @ 20°C

-4.0 to +4.0

Flash Point (°C)

71

### 9.2 Other information

N/A

## 10 - Stability and Reactivity:

### 10.1 Reactivity

It presents no significant reactivity hazards, by itself or in contact with water.

### 10.2 Chemical stability

Stable under normal temperature conditions.

### 10.3 Possibility of hazardous reactions

None

### 10.4 Conditions to avoid

Avoid storage temperatures above 25°C.

### 10.5 Incompatible materials

Avoid contact with strong acids, alkalis and oxidising agents.

### 10.6 Hazardous decomposition products

Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## 11 - Toxicological information:

### 11.1 Information on toxicological effects.

Acute toxicity:	Acute oral toxicity oral-rat LD50 > 5000 mg/kg Food and Cosmetics Toxicology. <b>14</b> , 457 (1976). Acute dermal toxicity skin-rabbit LD50 > 5000 mg/kg Food and Cosmetics Toxicology <b>14</b> , 457 (1976).
Skin corrosion / irritation:	Category 2 under GHS & CLP following EU 1272/2008 guidelines
Serious eye damage/irritation:	Potential for serious eye damage exists. Wear eye/face protection when handling.
Respiratory or skin sensitisation:	Skin sensitiser category 1 under GHS & CLP following EU 1272/2008 guidelines.
Germ cell mutagenicity:	Components of lemongrass oil (e.g. citral) have shown anti-mutagenic effects in mice against the nuclear damage caused by cyclophosphamide, mitomycin C and nickel chloride: Rabbani, S. I. <i>et al.</i> "Anti-clastogenic effects of citral." <i>Iranian Journal of Pharmacology &amp; Therapeutics</i> <b>4</b> :28-31(2005).
Carcinogenicity:	None of the major components of lemongrass oil from <i>Cymbopogon citratus</i> have carcinogenic potential Carbajal D <i>et al.</i> "Pharmacological study of <i>Cymbopogon citratus</i> leaves." <i>J. Ethnopharmacology</i> <b>25</b> :103-7 (1989).
Reproductive toxicity:	Lack of genotoxic effects in mice observed after 21 day oral intake of <i>Cymbopogon citratus</i> essential oil Food and Chemical Toxicology <b>49</b> : 2268–2272.
STOT-single exposure:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not classified but aspiration hazard exists. Wear aspirator in contaminated areas.
Other information:	Not listed as photo-toxic

## 12 - Ecological Information:

### 12.1 Toxicity

Insufficient data to classify.

## 12.2 Persistence and degradability

Data not available.

## 12.3 Bio-accumulative potential

Data not available.

## 12.4 Mobility in soil

Data not available.

## 12.5 Results of PBT and VPVB assessment

Not available.

## 12.6 Other adverse effects

N/A

## 13 - Disposal Considerations:

### 13.1 Waste Treatment Methods

Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

## 14 - Transport Information:



Warning Icon

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Oil of Lemongrass)

UN No. Road UN 3082

ADR Class Class 9

Hazard No (ADR) Not found

Hazchem Code Not found

UN No. SEA UN 3082

IMDG Class Class 9

IMDG Pack Gr. Pk Gp III

EMS F-A, S-F

UN No. AIR UN 3082

Air Class Class 9

Air Pack Gr. Pk Gp III

## 15 - Regulatory Information:

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Directives Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of

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*Lemongrass Essential Oil Organic - MSDS*

Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.

Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

## 15.2 Chemical safety assessment

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

## 16 -Other Information:

Training instructions: Refer to possible hazard before use of this product.

### Abbreviations and acronyms:

MSDS	Material Safety Data Sheet
INCI	International Nomenclature of Cosmetic Ingredients
CAS	Chemical Abstract Service
IMDG	International Maritime Code for Dangerous Goods
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	International Carriage of Dangerous Goods by Rail
ICAO	International Civil Aviation Organization
ADN	International Carriage of Dangerous Goods by Inland Waterways
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Trem Card	Transport Emergency Card
STOT	Specific Target Organ Toxicity
N/A	Not Available

### Risk Phrases in full:

R36 irritating to eyes  
R38 Irritating to skin  
R43 May cause skin sensitisation by skin contact  
R51/53 Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

### Safety Phrases in full:

S24 Avoid contact with skin.  
S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Complies with REACH guidance for SDS as circulated by ECHA 2011.

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## Q.C. REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding it's' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.

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